snapserver™ BY ADAPTEC

Snap Server™ 410

High-Performance, High-Capacity Rackmount Storage with Advanced Data Protection

Features

- Best-in-class performance
- 640GB, 1TB, 2TB capacity
- RAID 0, 1, 5 data protection
- CIFS/NFS/AFP support right out of the box for easy integration with Windows, Linux, UNIX, and Apple environments
- Active Directory Service (ADS) integration
- Integrated BakBone NetVault Software with a 500GB Virtual Tape Library
- Supports Snap Server Manager for easily managing one or more Snap Servers
- RoHS and WEEE compliant

Options

- Store block and file data on the same server with optional iSCSI support
- CA *e*Trust Antivirus software
- Backup and NDMP agent support
- Snapshot capability
- Snap EDR enterprise-class data replication and disaster recovery
- StorAssure Personal Edition desktop backup software

The Snap Server 410 by Adaptec combines best-in-class storage performance with customer-centric ease of use, RAID 5 data protection and a base capacity ranging from 640GB to 2TB in a 1U server designed for workgroups and small business. Built on the award-winning GuardianOS™ platform, the Snap Server 410 integrates many enterprise-class features into a new class of cost-effective storage for small and medium sized businesses and the distributed environments of many larger companies. Choose the Snap Server 410 and see why nearly 200,000 users around the world have made simple, stable, and secure Snap Servers the volume leader in network attached storage.

A new class of performance

The Snap Server 410 combines a powerful high-performance processing platform with the functionality of Snap Server GuardianOS. It outperforms all other networked storage alternatives in its class. The proven GuardianOS platform has been fine-tuned over years of development to simplify data consolidation and management, maximize data protection/security, and make the most of your storage budget.

Monitoring and control made simple

With legendary Snap Server ease of use and management, the Snap Server 410 installs in just minutes, and is virtually maintenance-free after installation. It integrates seamlessly into Windows, Linux, UNIX, and Apple environments. Snap Server makes it simple for anyone to manage a single Snap Server or all the Snap Servers in an organization.

One server unifying data types

With Snap Servers, you can easily store database, email, and file-level data on a single server. The iSCSI support option in the GuardianOS platform allows you to securely manage, store, and distribute block data across your Ethernet network using industry-standard iSCSI initiators.

Choose the data protection you need

The Snap Server 410 provides RAID 0 (data striping), RAID 1 (mirroring), and RAID 5 (striping with parity). It has an integrated WorkGroup Edition of BakBone NetVault with a 500GB Virtual Tape Library license and has the ability to integrate with many popular backup applications. Choose from options including CA *e*Trust Antivirus data protection software and snapshot capability for backup. Take your solution further with disaster recovery using StorAssure Personal Edition for automated backup of desktop and laptop systems, or Snap Enterprise Data Replicator (Snap EDR).

Complete storage solutions for distributed enterprise

Simply and cost-effectively share, manage, and protect data distributed throughout your business. For complete solutions that extend from the data center to the edge of your company, choose Snap Server.

Optional Software Choices

iSCSI

iSCSI software enables storage of database, email and other block data on the Snap Server. Share storage capacity between block and file applications.

AntiVirus

CA *e*Trust Antivirus is an award-winning, comprehensive antiviral defense solution that protects your data storage.

Snapshots

Snapshot technology enables immediate or scheduled point-in-time images of the file system for faster backup and recovery.

Enterprise-Class Data Replication

The Snap Enterprise Data Replicator (Snap EDR) suite simplifies cross-platform management, protection and disaster recovery of distributed data.

Automated Desktop/Laptop Backup

StorAssure Personal Edition ensures data stored on desktop and laptop systems is automatically backed up to the Snap Server whenever files change.

Snap Server 410 Specifications

Physical

- Width: 16.7 in (424.3 mm)
- Height: 1.75 in (44.45 mm) 1U
- Depth: 19.2 in (487.7 mm)
- Weight: 26.0 lbs (11.8 kg)

Mounting

- Custom 19” rackmount rails included
- Minimum rack depth 26" (660.4mm)

Agency Certifications

- UL, cUL, CE, FCC Class A, TuV, Nemko

Processor

- 2.0GHz

Memory

- 256MB

Drive Configuration

- 4 x 160GB hot-swappable SATA II drives
- 4 x 250GB hot-swappable SATA II drives
- 4 x 500GB hot-swappable SATA II drives

Network Interface

- Dual Autosensing 10/100/1000Base-T, RJ-45

USB Interface

- Support for APC UPS device over USB

Power

- Power Rating: 200W, 100-240VAC, 50 - 60Hz
- Input Current: 1.5A (RMS) for 115VAC, 0.75A (RMS) for 230VAC
- Power Consumption: 172W (steady state)
- Heat Dissipation: 587 BTUs/hr
- Single power supply

Environmental Limits, Operating

- Temperature: 50° F to 95° F (10° C to 35° C)
- Non-Condensing Humidity: 20% to 80%
- Vibration: .1G at 10-300Hz random for 120 min. max duration
- Shock: 6 pulses of 33G for up to 2ms
- Altitude: 0 ft. to 10,000 ft. (0 m to 3,048 m)

Environmental Limits, Non-operating

- Temperature: 14° F to 149° F (-10° C to 65° C)
- Non-Condensing Humidity: 5% to 95%
- Vibration: 2G at 5-500Hz for 90 min. max duration
- Altitude: 0 ft. to 35,000 ft. (0 m to 10,668 m)

GSA Listed

This product is listed by the U.S. General Services Administration. Contact your local distributor for details.

GuardianOS Specifications

Network Transport Protocols

- TCP/IP
- UDP/IP
- AppleTalk

Network File Protocols

- Microsoft Networks (CIFS/SMB)
- Linux/UNIX (NFS v2/3 over TCP & UDP)
- Apple (AFP v2/v3)
- Web (HTTP 1.1/HTTPS)
- File Transport Protocol (FTP)

Network Block Protocols

iSCSI Target Support

- Supports qualified iSCSI software and hardware initiators (see details below).

iSCSI Software Initiator Support

- Windows: Microsoft iSCSI Initiator v1.03, v1.04, v1.05, v1.06, v2.02
- Solaris: Cisco SN 5400 Series iSCSI Drive v3.3.5
- Linux: RHEL 3 & 4 and SLES 9: Built-in Initiator; Redhat 7.3 & 9.0: UNH-iSCSI Initiato v1.5.3
- NetWare: NetWare Initiator 6.5 SP1
  - emboot Bootable iSCSI Software for Windows
  - VMWare ESX v3.0 in-box iSCSI Initiator

iSCSI Hardware Initiator Support

- Intel PRO/1000T IP Storage Adapter v2.0, 2.1
- Alacritech SES1001 iSCSI Adapter
- QLogic QLA4010 iSCSI Initiator

Network Client Types

- Windows: 98, Me, NT 4.0, 2000, 2003, XP
- Macintosh: OS 8.x, 9.x, 10.x
- UNIX: Solaris 7, 8, 9; HP-UX 11; AIX 4.3.3, 5.x
- Linux: Red Hat Linux 7.x, 8.x, 9.x; Fedora
- FTP

Server Emulation

- Windows 2000/2003
- Windows NT 4.0
- AppleShare (v2/v3)
- NFS v2/3
- FTP

Automatic IP Address Assignment

- Supports DHCP Client or Server for automatic assignment of IP address

Network Security

- Microsoft Active Directory Service (ADS Member Server)
- Kerberos Authentication v5
- Windows NT Domain (member server)
- File and Folder Access Control List (ACL)
- UNIX Network Information Service (NIS) Support
- UID/GID mapping between NFS & CIFS
- Secure Sockets Layer (SSL) v2/v3 128-bit Encryption
- Transport Layer Security (TLS) v1
- CHAP Authentication (iSCSI target level)

System Management

- Browser-Based User Interface for Remote Administration
- Snap Server Manager Client-Based Setup Utility (platform-independent)
- SNMP (MIB II and Host Resource MIB)
- User Disk Space Quotas for Windows, Macintosh, and UNIX/Linux
- Group Disk Space Quotas for NIS Groups
- Environmental Monitoring
- Email Notification Alerts
- Network Time Protocol Support

RAID Options

The Snap Server 410 can be configured for data protection. Options include:

- RAID 5 (drive striping with parity): For each array, the size of one drive is reserved for parity. Provides the best combination of performance and data protection.
- RAID 1 (drive mirroring): Drives are duplicated for maximum data protection.
- RAID 0 (drive striping): Large virtual drive with data striped across all drives to provide maximum performance with no loss in usable capacity. (No data protection.)

GuardianOS Specifications (cont.)

Data Protection

- Snapshots: Optional snapshot technology enables immediate or scheduled point-in-time images of the file system.
- Antivirus: Optional CA *e*Trust Antivirus Software
- Enterprise-Class Replication: Optional Snap EDR simplifies cross-platform management and protection of distributed data.
- Automated Desktop/Laptop Backup: StorAssure Personal Edition ensures data stored on desktop and laptop systems is automatically backed up to the Snap Server whenever files change.
- Backup: Integrated BakBone NetVault WorkGroup Edition.
- Network Backup: Supports VERITAS NetBackup/Backup Exec, CA BrightStor ARCserve/Enterprise, Legato NetWorker, BakBone Netvault, and Microsoft Backup Software for Windows 98, Me, NT, 2000, 2003, XP. Compatible with Dantz Retrospect for Macintosh.
- UPS Support: APC brand UPS over USB and Network Management Cards are supported for graceful system shutdown.

Models	Part Number
Snap Server 410, 640GB	5325301982
Snap Server 410, 1TB	5325301983
Snap Server 410, 2TB	5325302029
Software Options	
iSCSI	5325302027
Snapshot	5325302025
NDMP	5325302026
CA *e*Trust Antivirus	5325302024
Snap EDR	5325302018
Snap EDR Advanced	5325302020
Snap EDR Express	5325302015
StorAssure Personal Edition	5325301972
Snap Server Manager license*	5325301955

**Control of individual server is included, this license enables multi-server administration*

Worldwide Warranty

Snap Server hardware and software are backed by world-class service and support to protect your investment from downtime. With Adaptec services, you have complete peace of mind. Standard services with the Snap Server 410 include:

- Three-year limited hardware warranty, return to depot
- 30-day software support

Optional Support Programs

Today's mission-critical environments require maximum uptime and rapid resolution should problems arise. Adaptec provides a comprehensive suite of service and support upgrade options created to help you protect your business operations. Providing additional levels of technical service and support, Adaptec services extend the standard protection packages already included with all Adaptec products, including the market-leading Snap Server products. From extending your warranty phone support to complete onsite support for same day recovery, you can select the level of support that best fits your business and resource requirements. For more information about Adaptec services, please contact your distributor. Or, call Adaptec at 1-800-442-7274 or visit us online at: **www.snapserver.com**

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